

FIG. 1

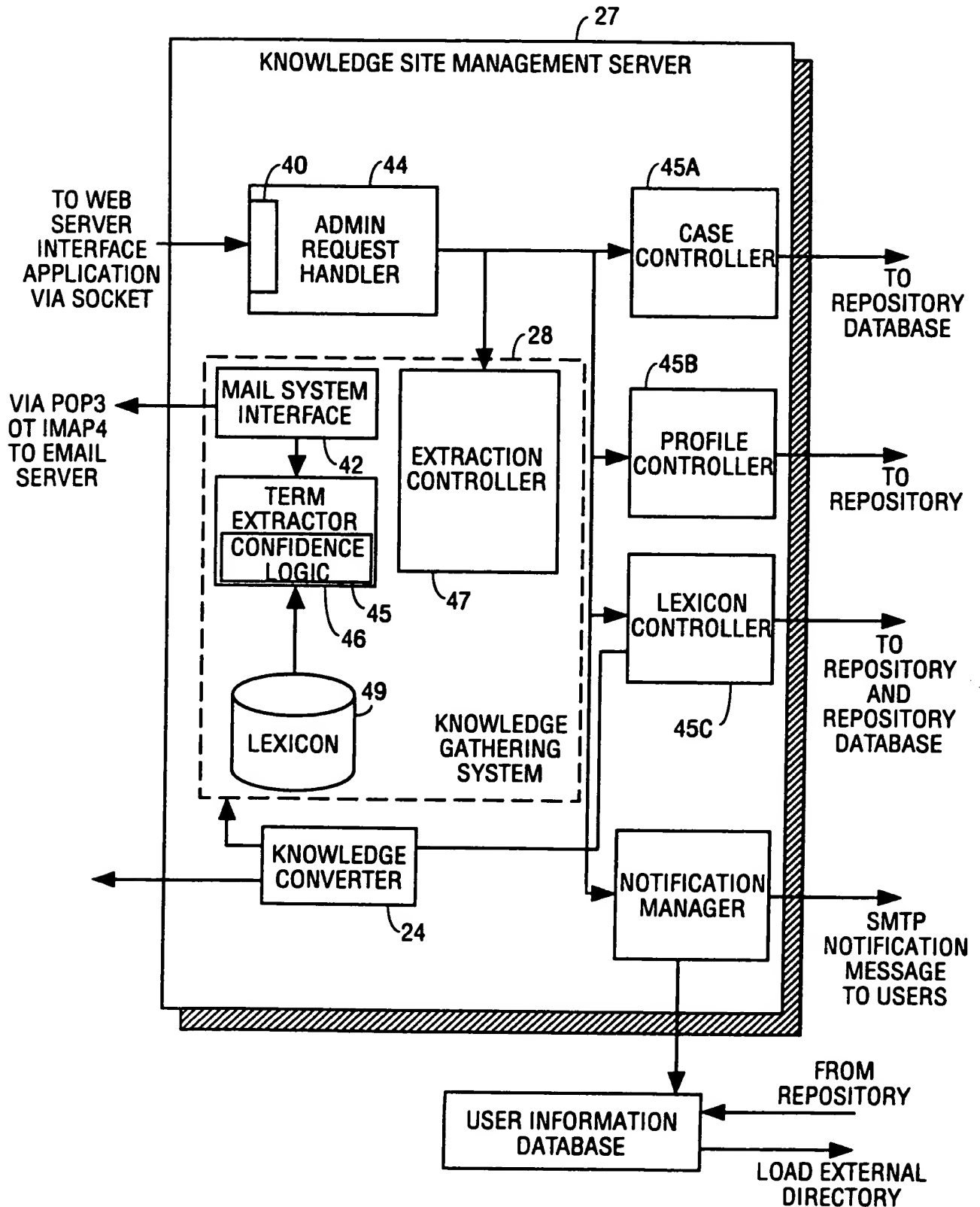
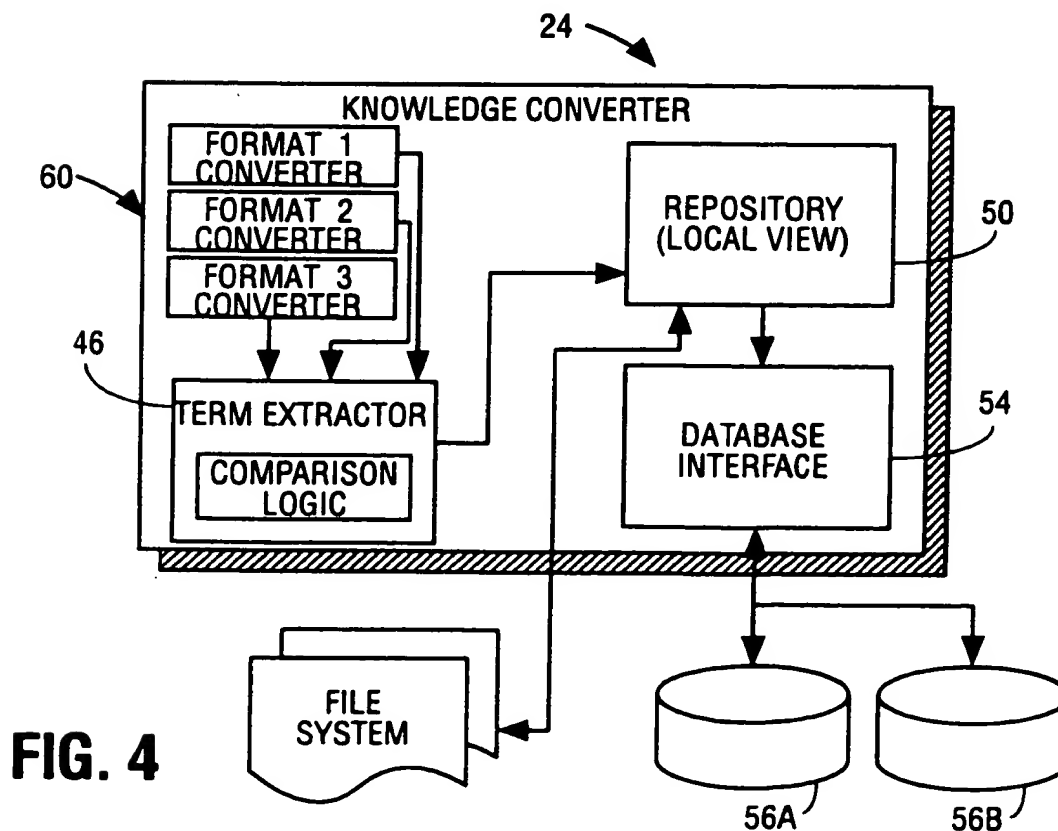
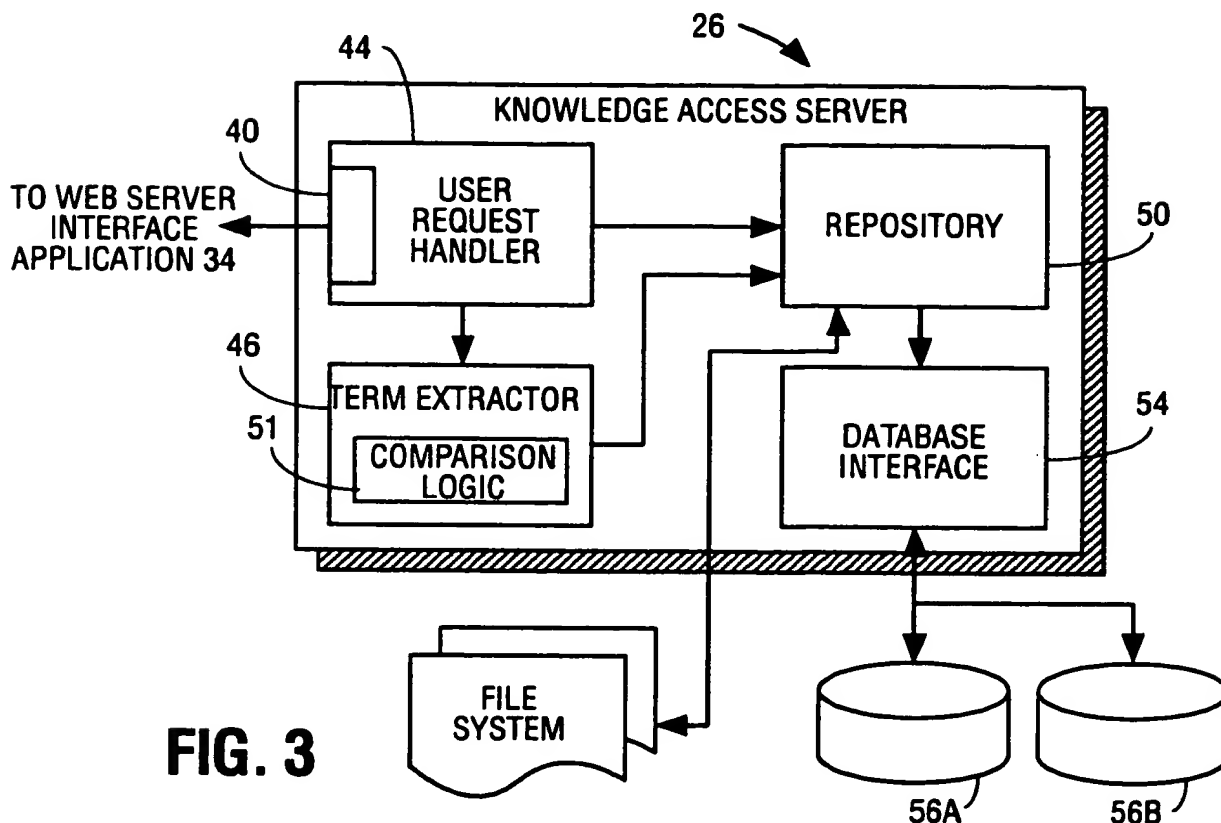
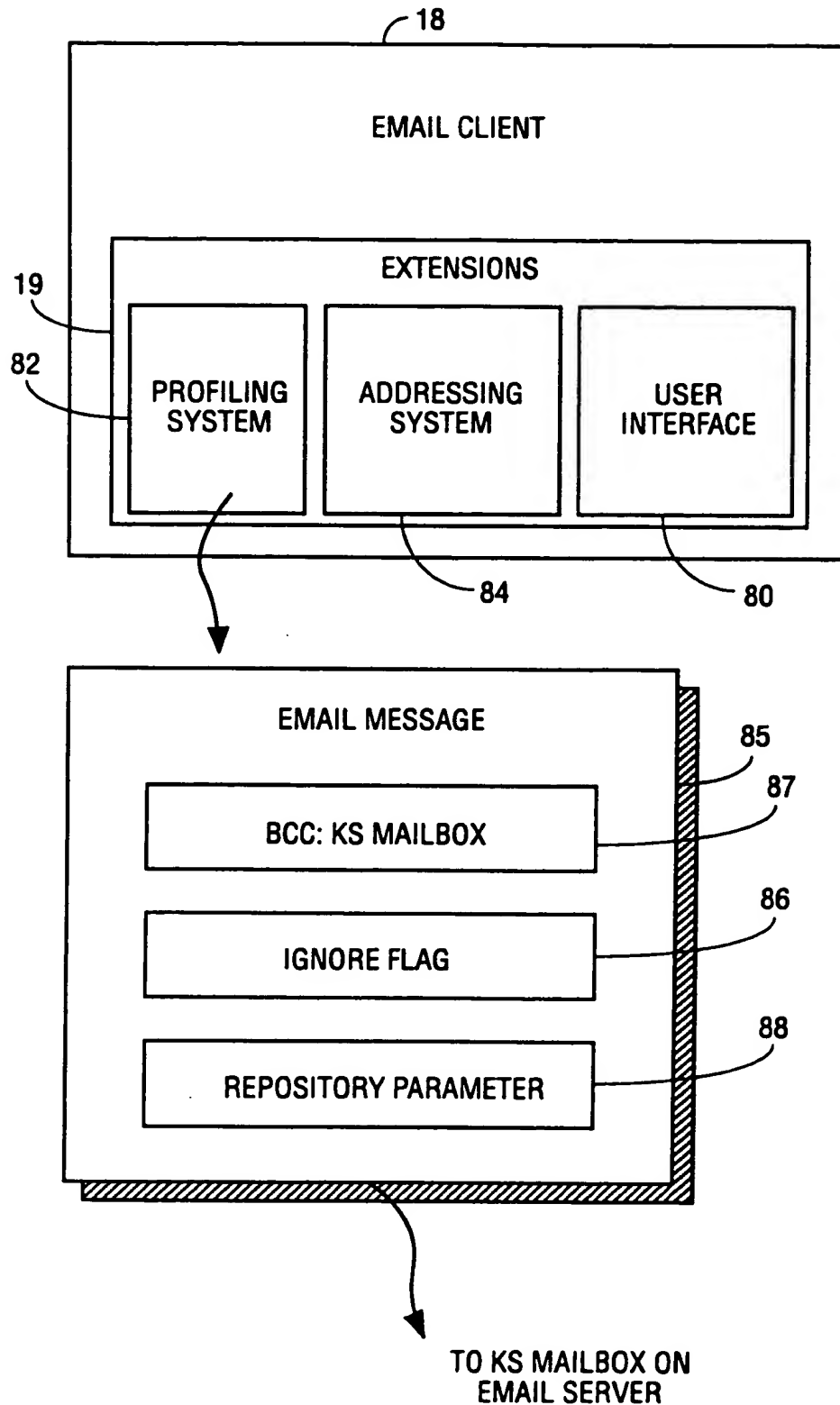


FIG. 2





**FIG. 5**

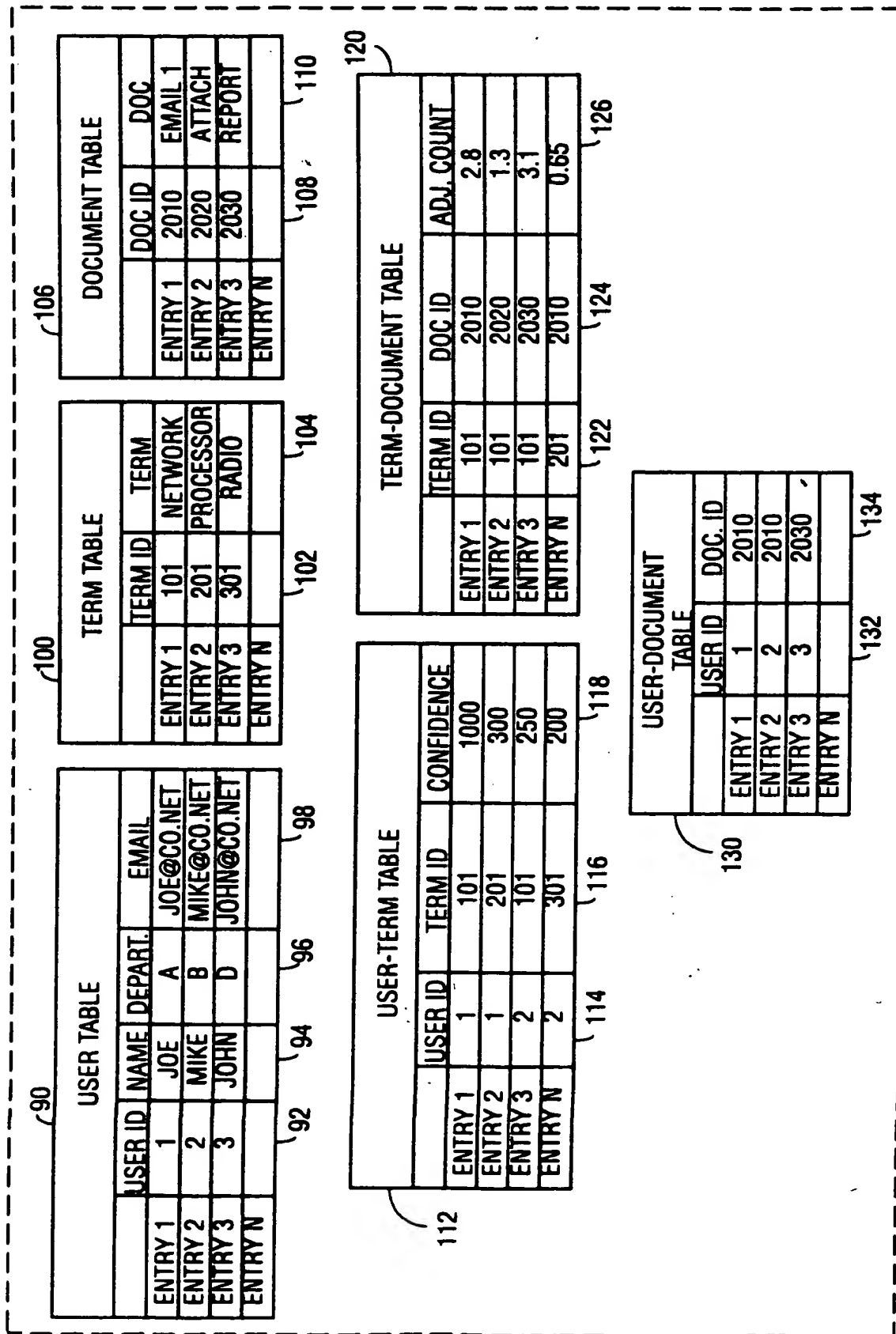
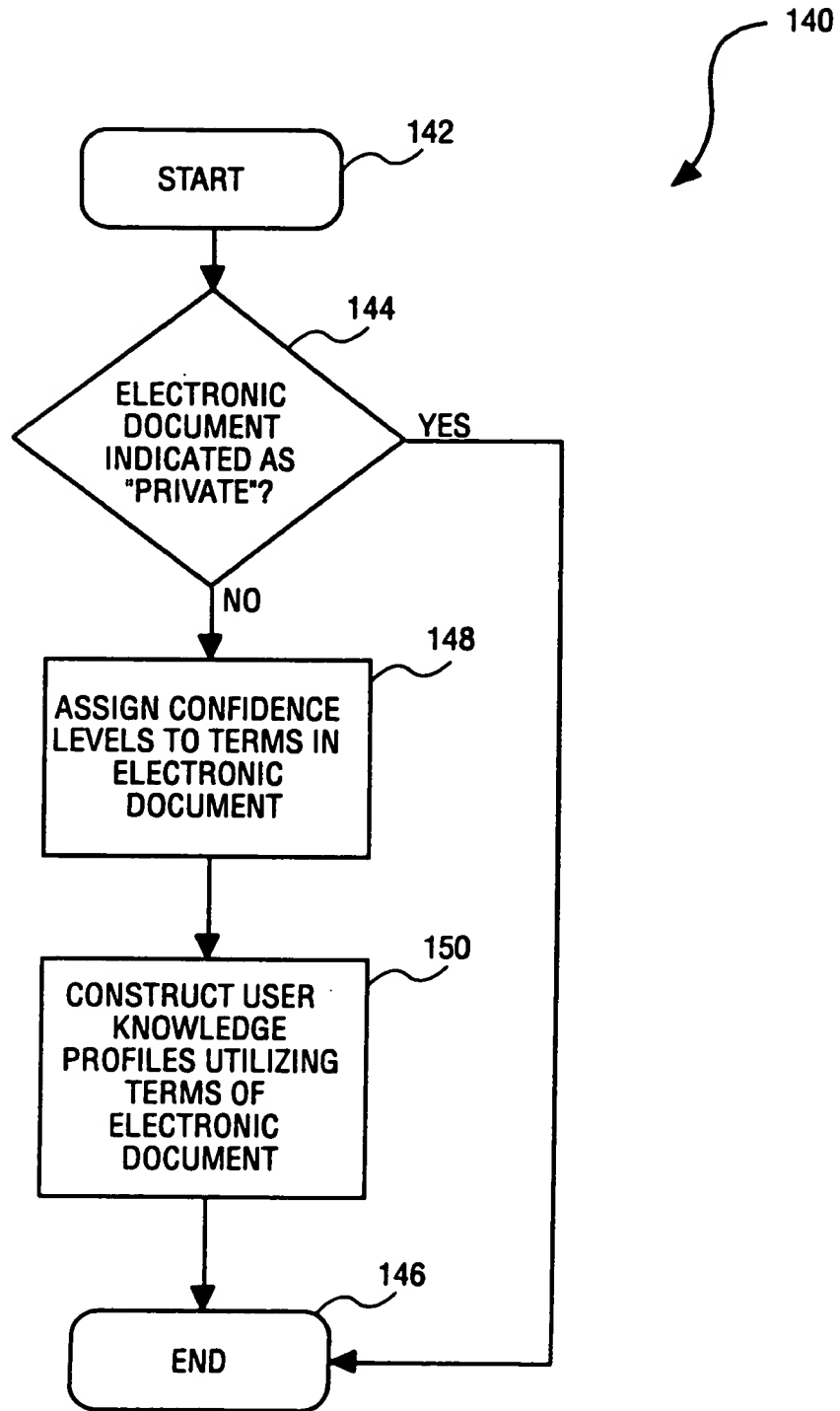
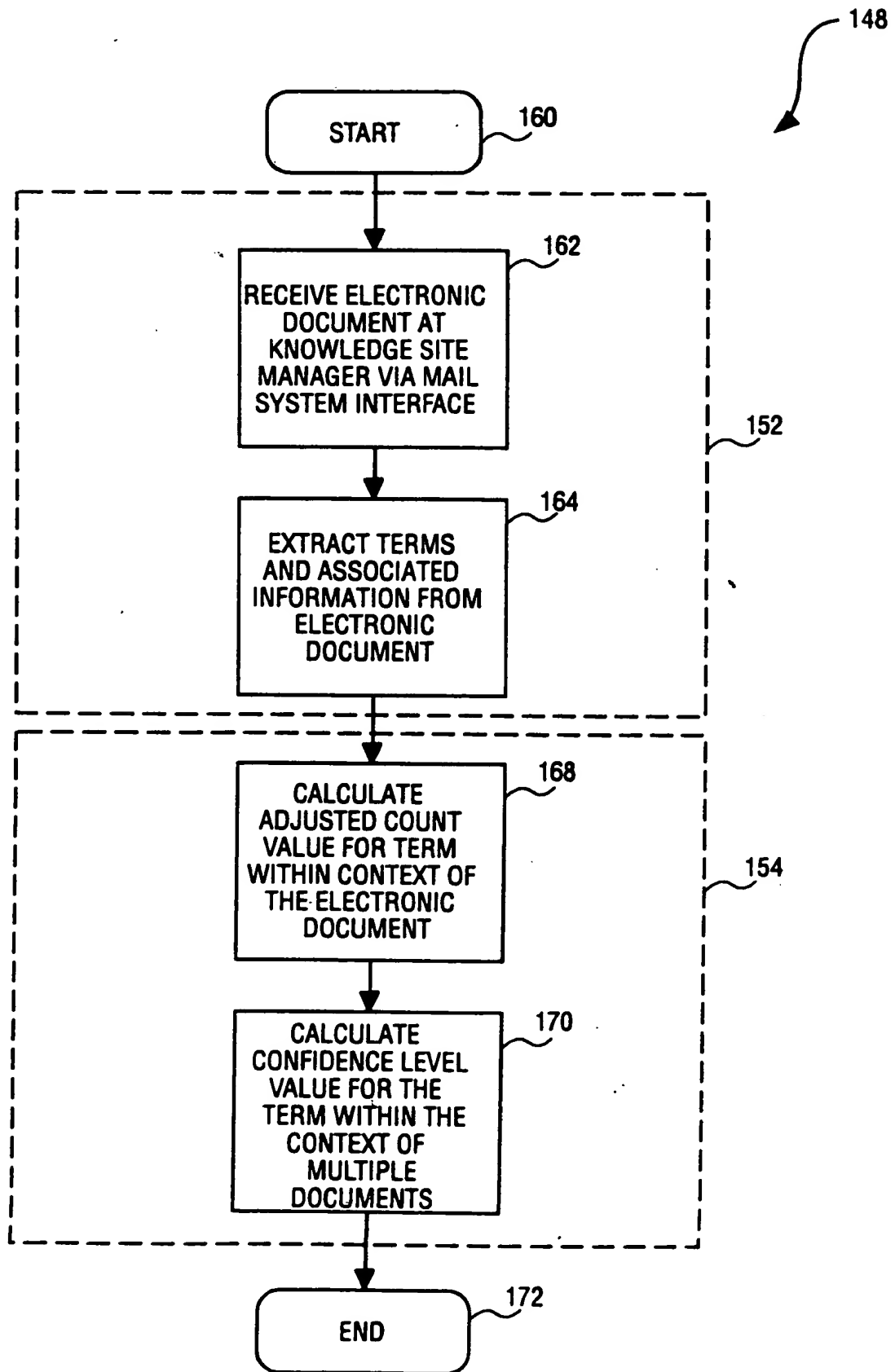


FIG. 6



**FIG. 7**



**FIG. 8**

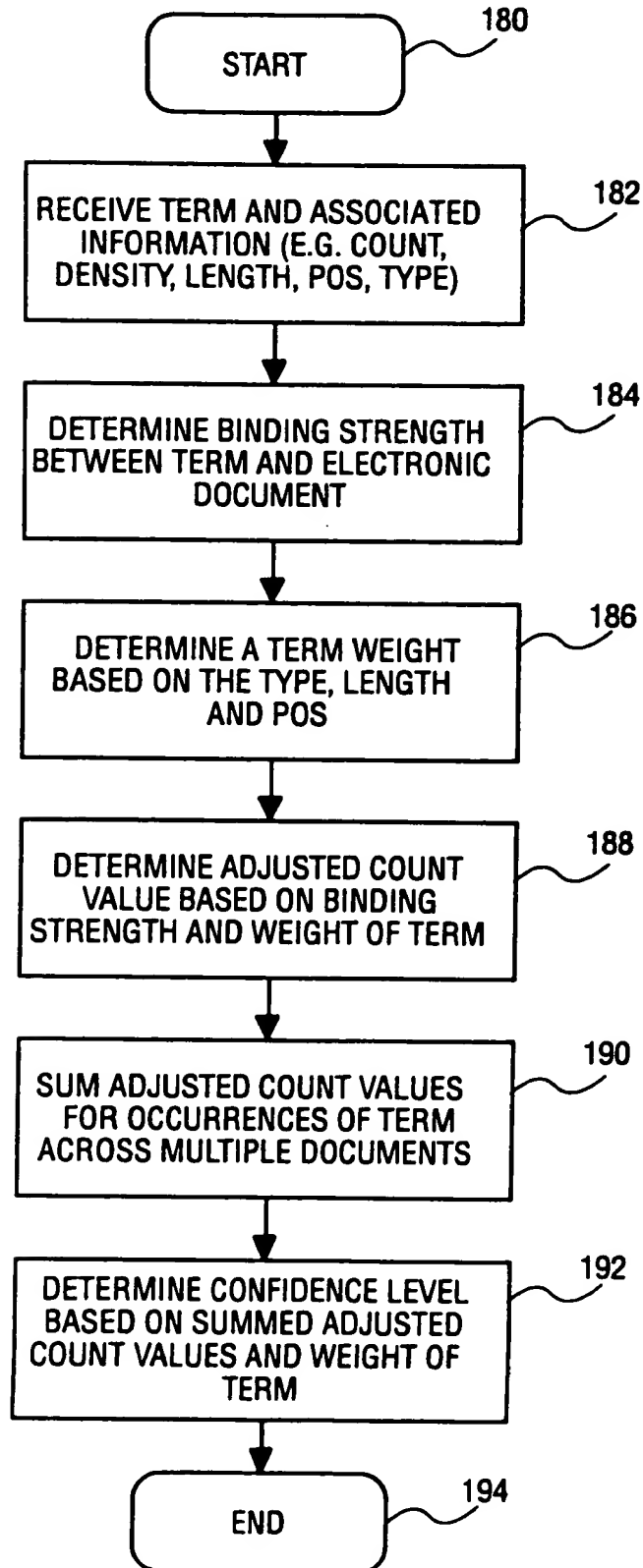
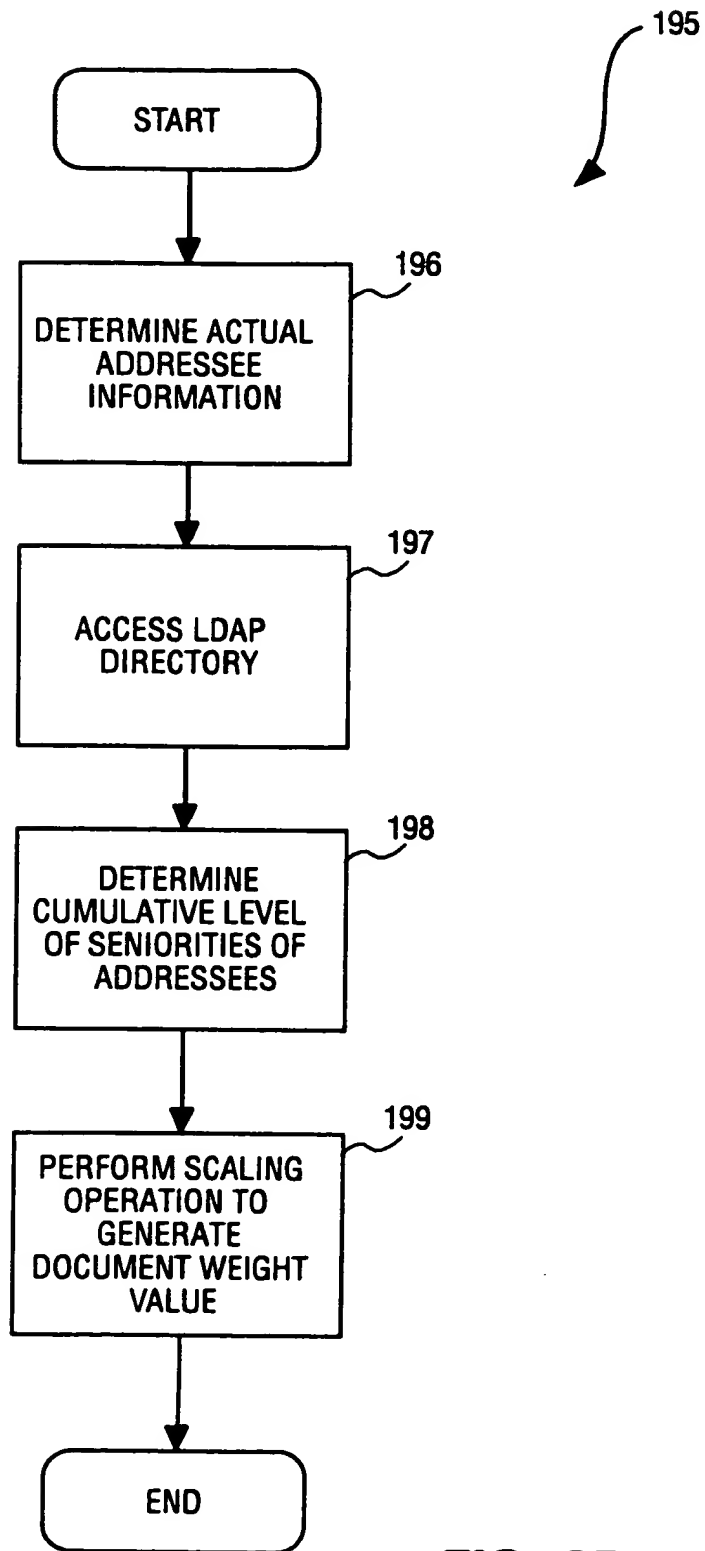


FIG. 9A





**FIG. 9B**

TERM-DOCUMENT BINDING TABLE		
CLASS	NO. OF OCCURENCES	DENSITY
A	X	4.00%
B	X	2.00%
C	X	1.00%
D	X	0.5%
E	3	X
F	1	X

FIG. 10

210

WEIGHT TABLE				
WEIGHT	TYPE	LENGTH	POS	OTHER
10	P	1	A	
30	L	1	V	
150	P	2	NN	
300	L	2	N	
400	L	3	N	
450	U	7	X	

212 214 216 218

FIG. 11

220



	A	B	C	D	E	F
10	0	0	0	0	0	0
30	0	0	0	0	0	0
100	0.4	0.3	0.2	0.1	0.05	0
150	0.8	0.7	0.6	0.5	0.4	0.1
300	1.5	1.4	1.3	1	0.5	0.1
320	1.6	1.5	1.4	1.1	0.6	0.1
400	1.9	1.8	1.5	1.2	0.7	0.1
450	2	1.9	1.6	1.3	1	0.1

**FIG. 12**

230



	0.063	0.125	>>>>>	32	64	128
10	0.1	0.2	>>>>>	55	100	200
30	0.3	0.6	>>>>>	180	350	600
100	1.6	2.8	>>>>>	600	1000	2100
150	2.5	5	>>>>>	1100	2000	5000
300	6.5	11	>>>>>	2700	6000	15000
320	7.1	11.5	>>>>>	2900	7000	16000
400	8	15	>>>>>	3500	8000	20000
450	9	18	>>>>>	4200	9000	24000

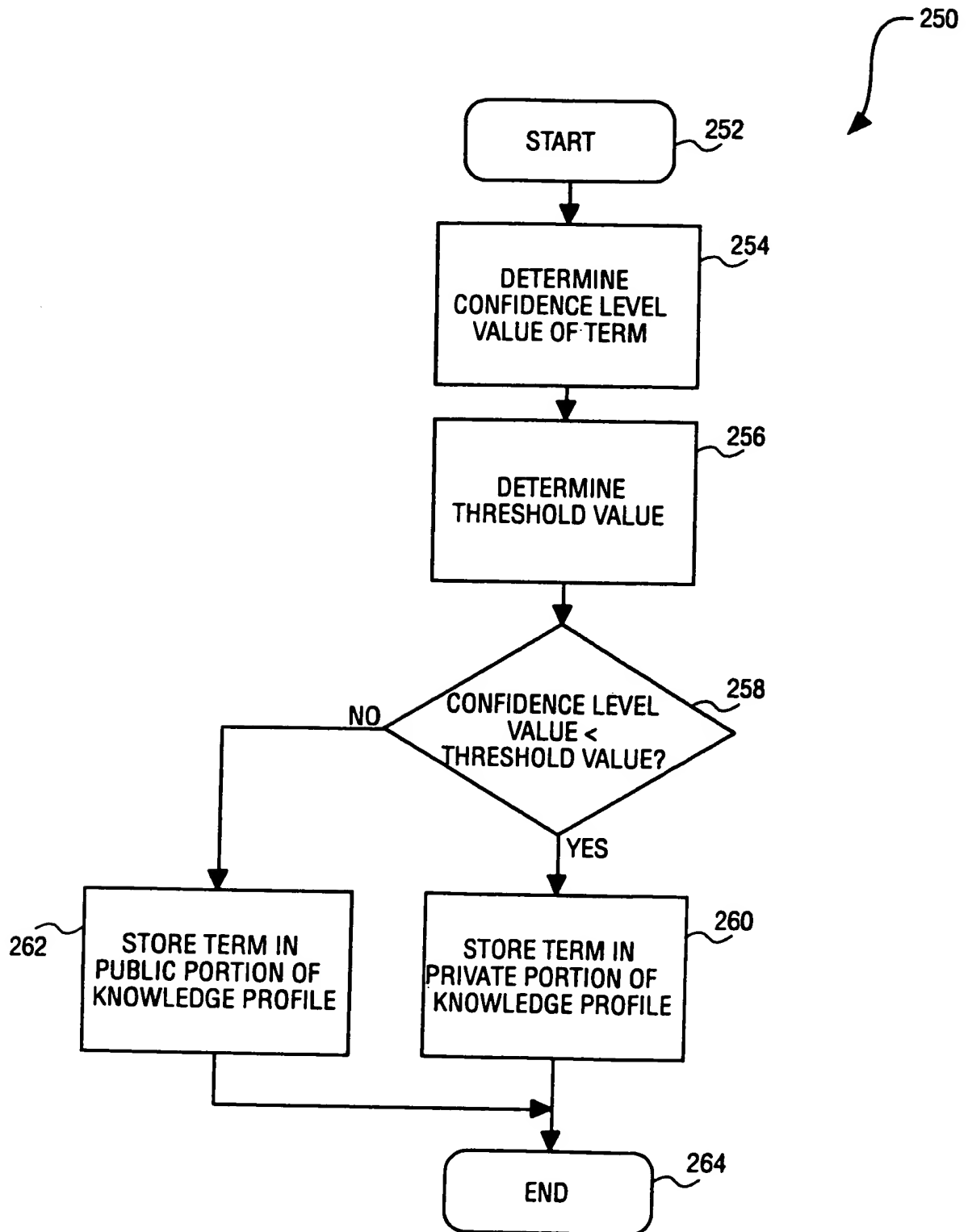
**FIG. 13**

240

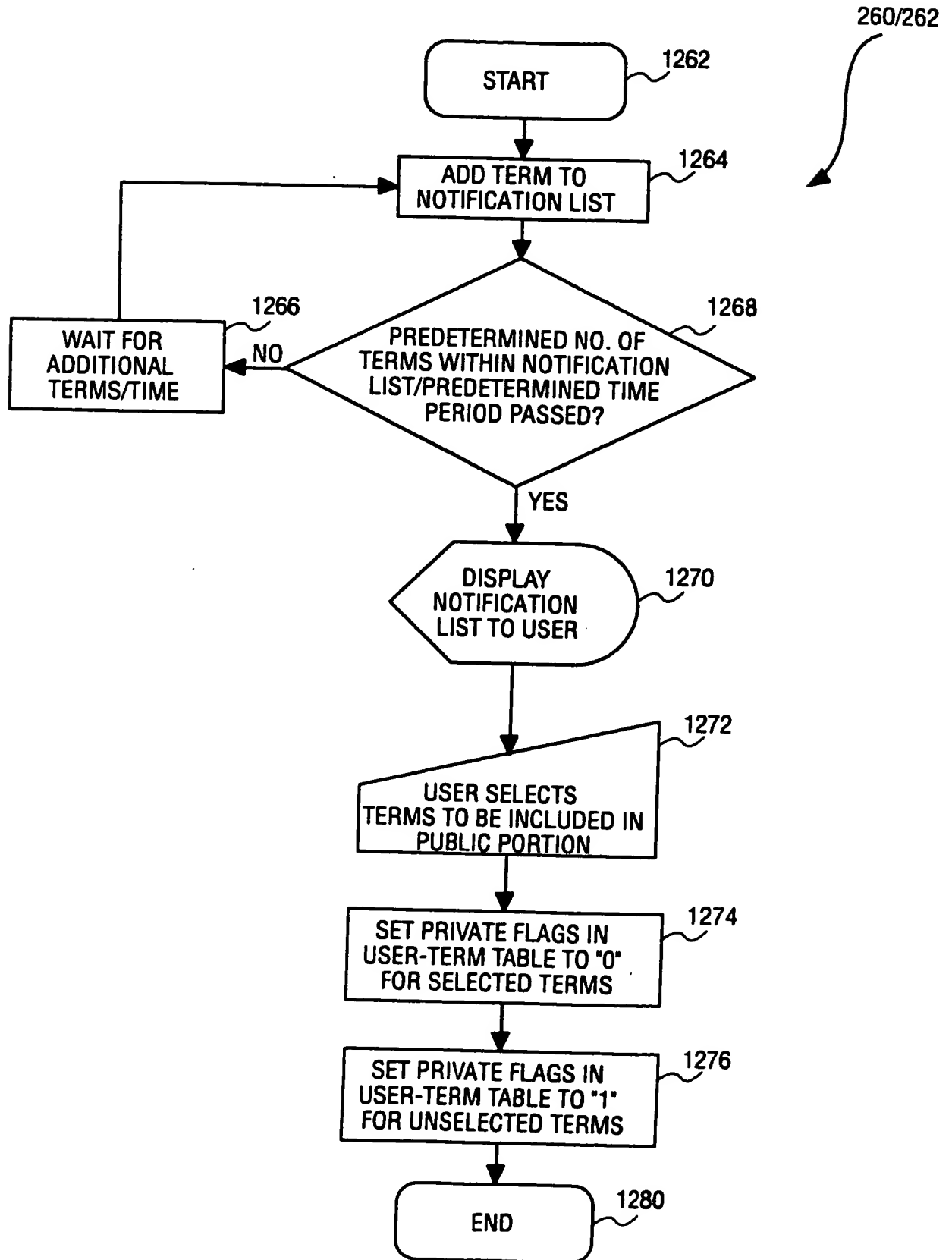


	0.063	0.125	>>>>>	32	64	128
10	0	0	>>>>>	50	100	200
30	0	0	>>>>>	150	350	600
100	0	0	>>>>>	600	1000	1000
150	0	0	>>>>>	1000	1000	1000
300	0	0	>>>>>	1000	1000	1000
320	0	0	>>>>>	1000	1000	1000
400	0	25	>>>>>	1000	1000	1000
450	0	25	>>>>>	1000	1000	1000

**FIG. 14**



**FIG. 15A**



**FIG. 15B**




112

USER ID	TERM ID	CONFIDENCE LEVEL
1	101	990
1	106	976
1	207	950
.	.	.
.	.	.
.	.	.
1	67	310
1	98	300
1	116	290
1	190	287
.	.	.
.	.	.
.	.	.
8	107	995
8	128	992
8	154	900
.	.	.
.	.	.
.	.	.
8	62	370
8	8	300
8	52	207
8	261	200
.	.	.
.	.	.
.	.	.

92      94      118

**FIG. 16A**

112



USER ID	TERM ID	CONFIDENCE LEVEL	PRIVATE FLAG
1	101	990	0
1	106	976	0
1	207	950	1
.	.	.	.
.	.	.	.
.	.	.	.
1	67	310	0
1	98	300	1
1	116	290	0
1	190	287	0
.	.	.	.
.	.	.	.
.	.	.	.
8	107	995	1
8	128	992	0
8	154	900	0
.	.	.	.
.	.	.	.
.	.	.	.
8	62	370	0
8	8	300	0
8	52	207	0
8	261	200	0
.	.	.	.
.	.	.	.
.	.	.	.

92 94 118 119

FIG. 16B

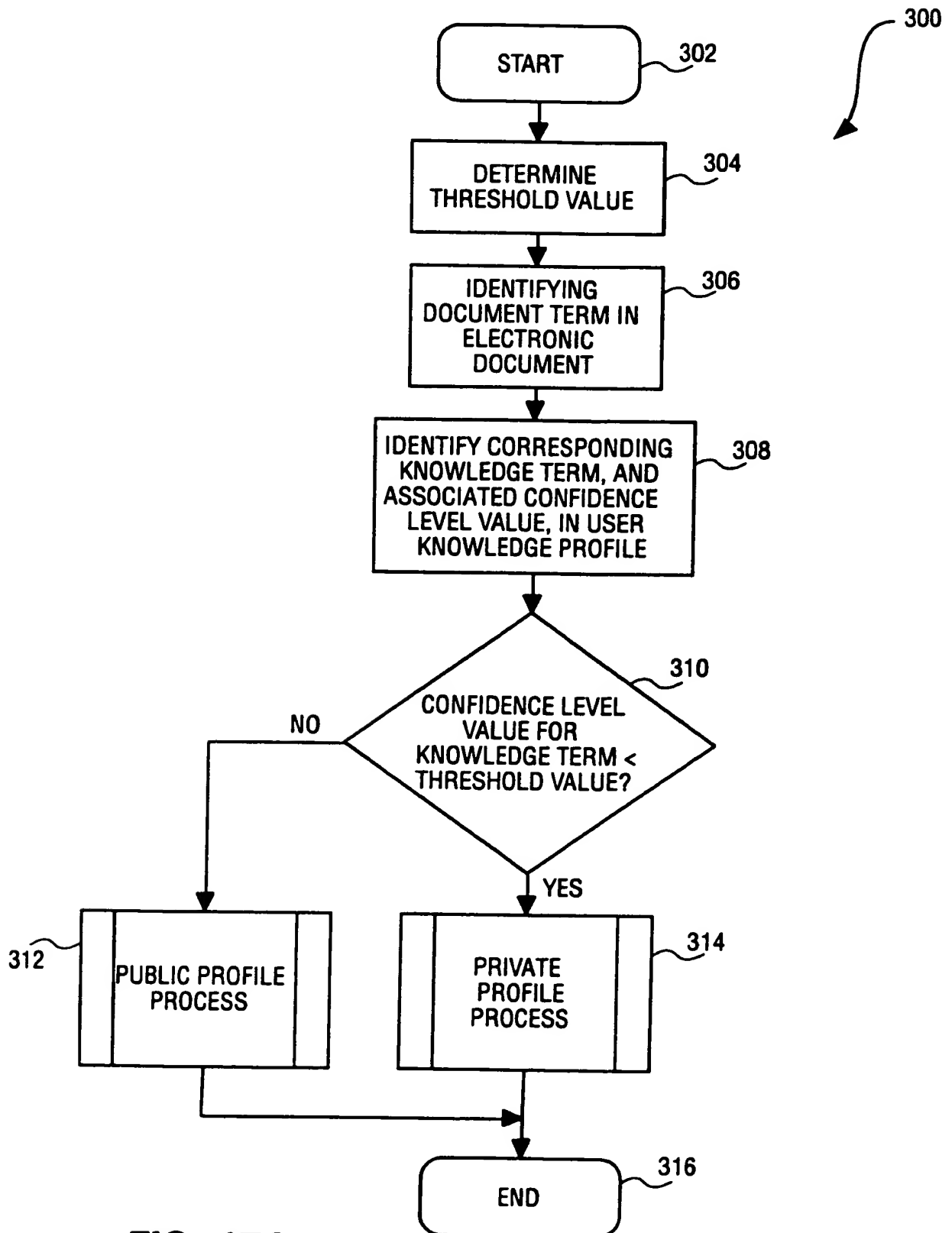
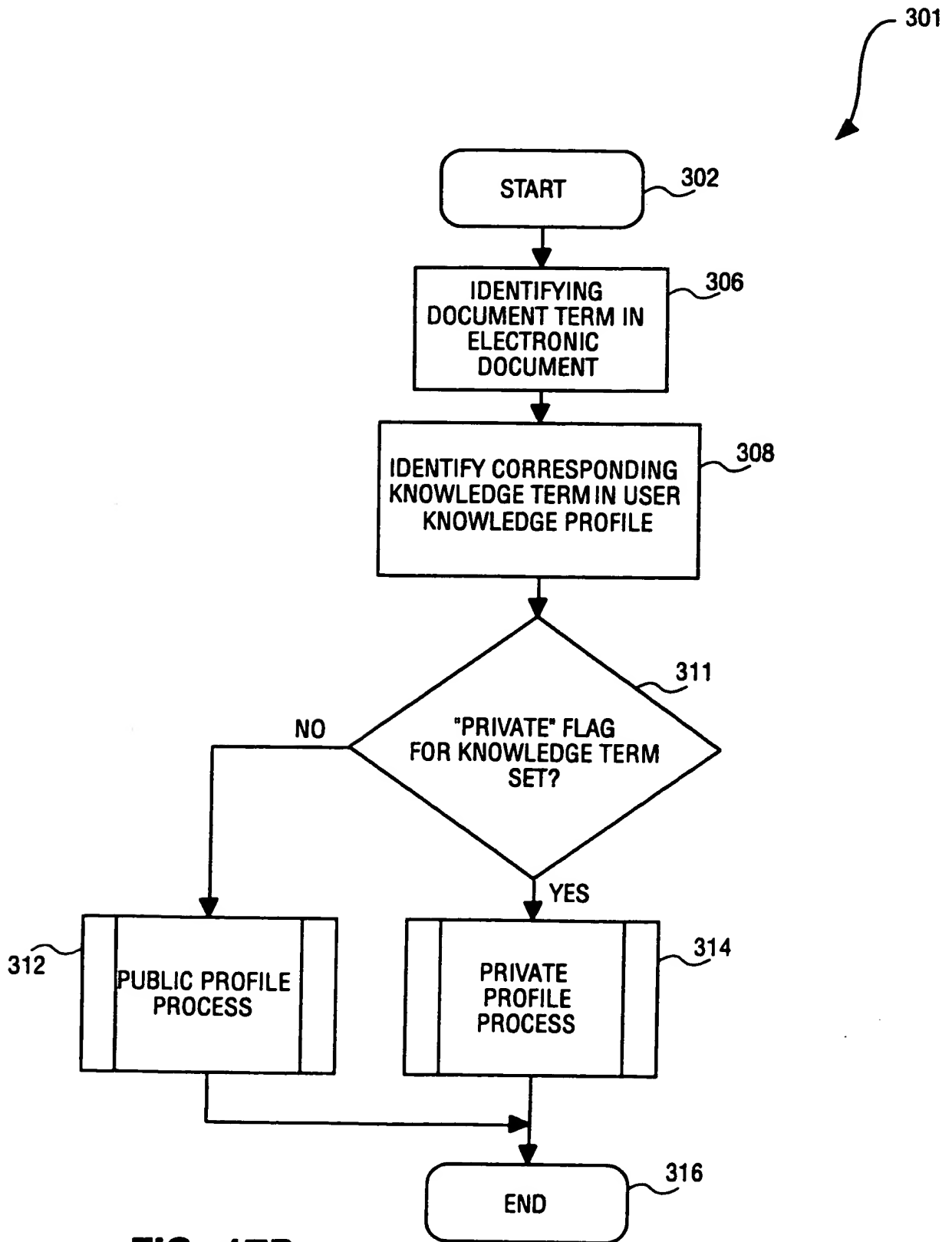
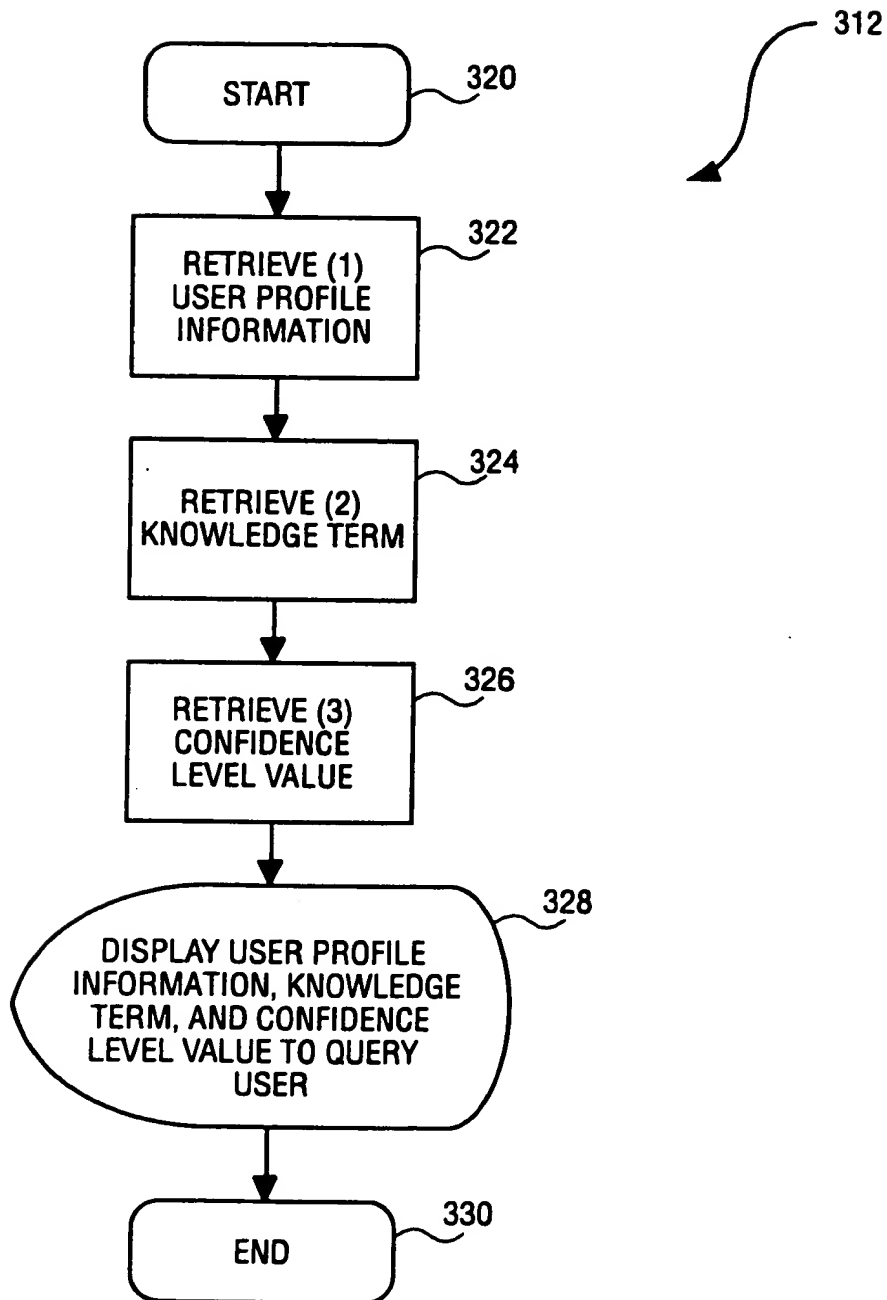


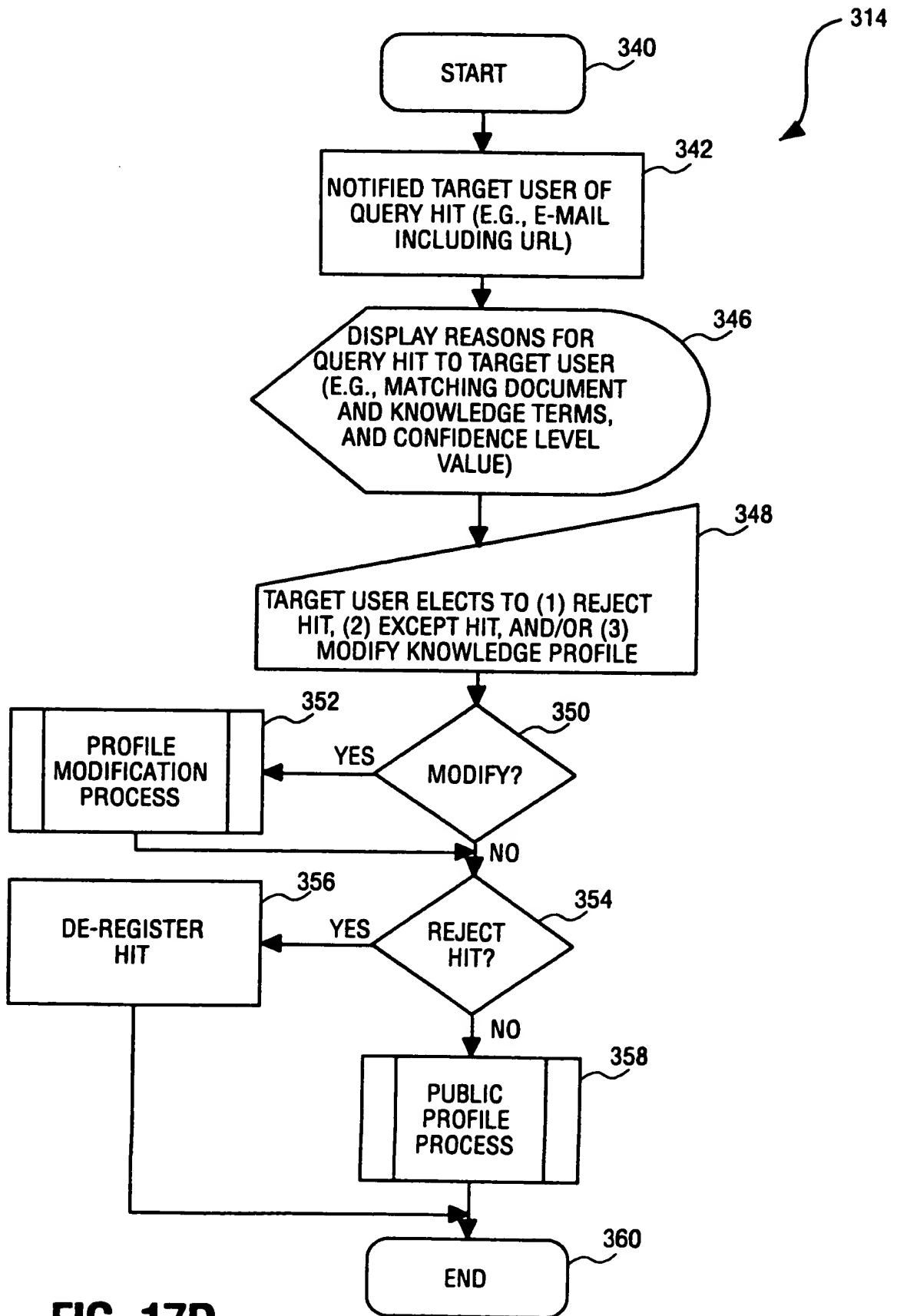
FIG. 17A

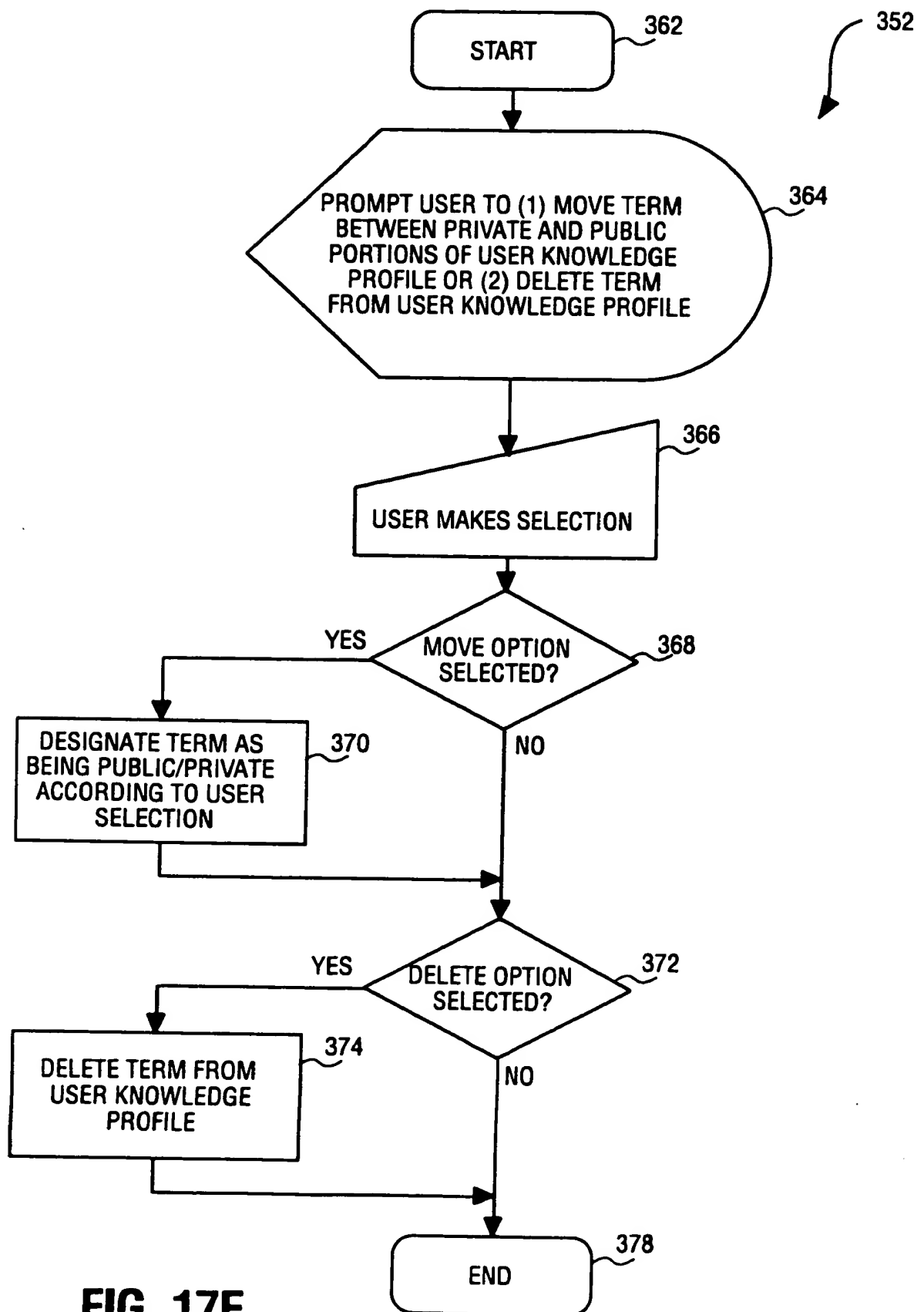


**FIG. 17B**



**FIG. 17C**





**FIG. 17E**

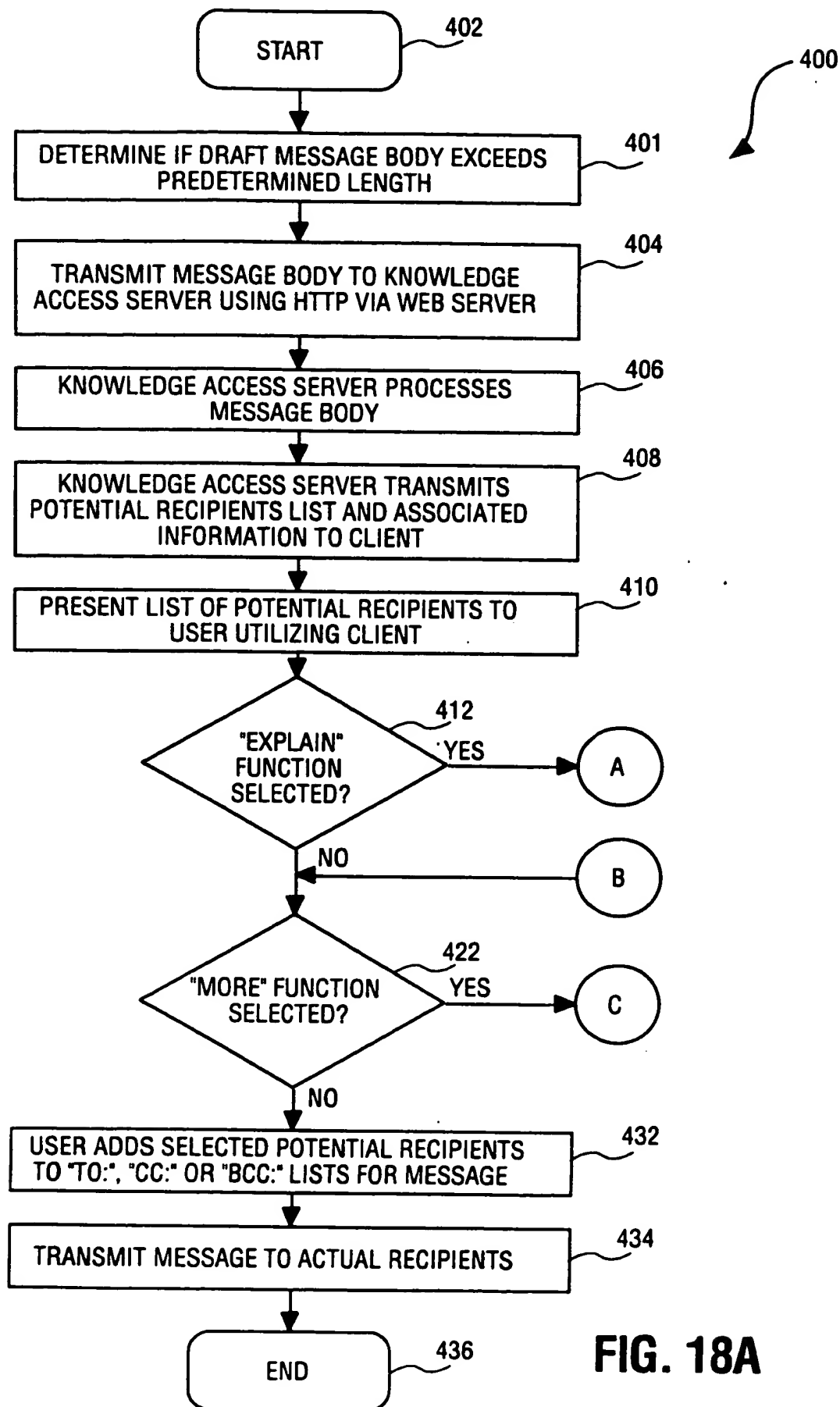
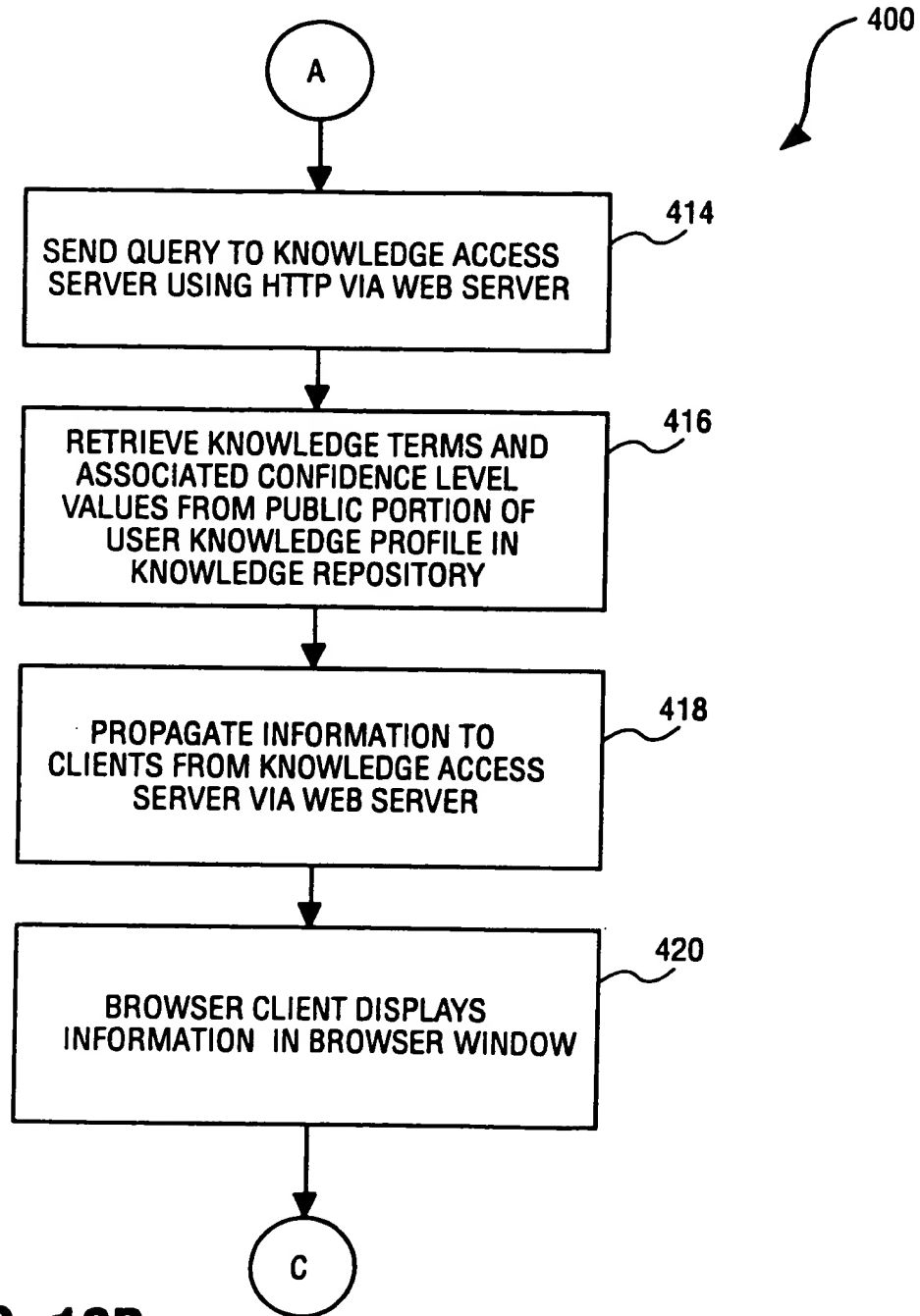
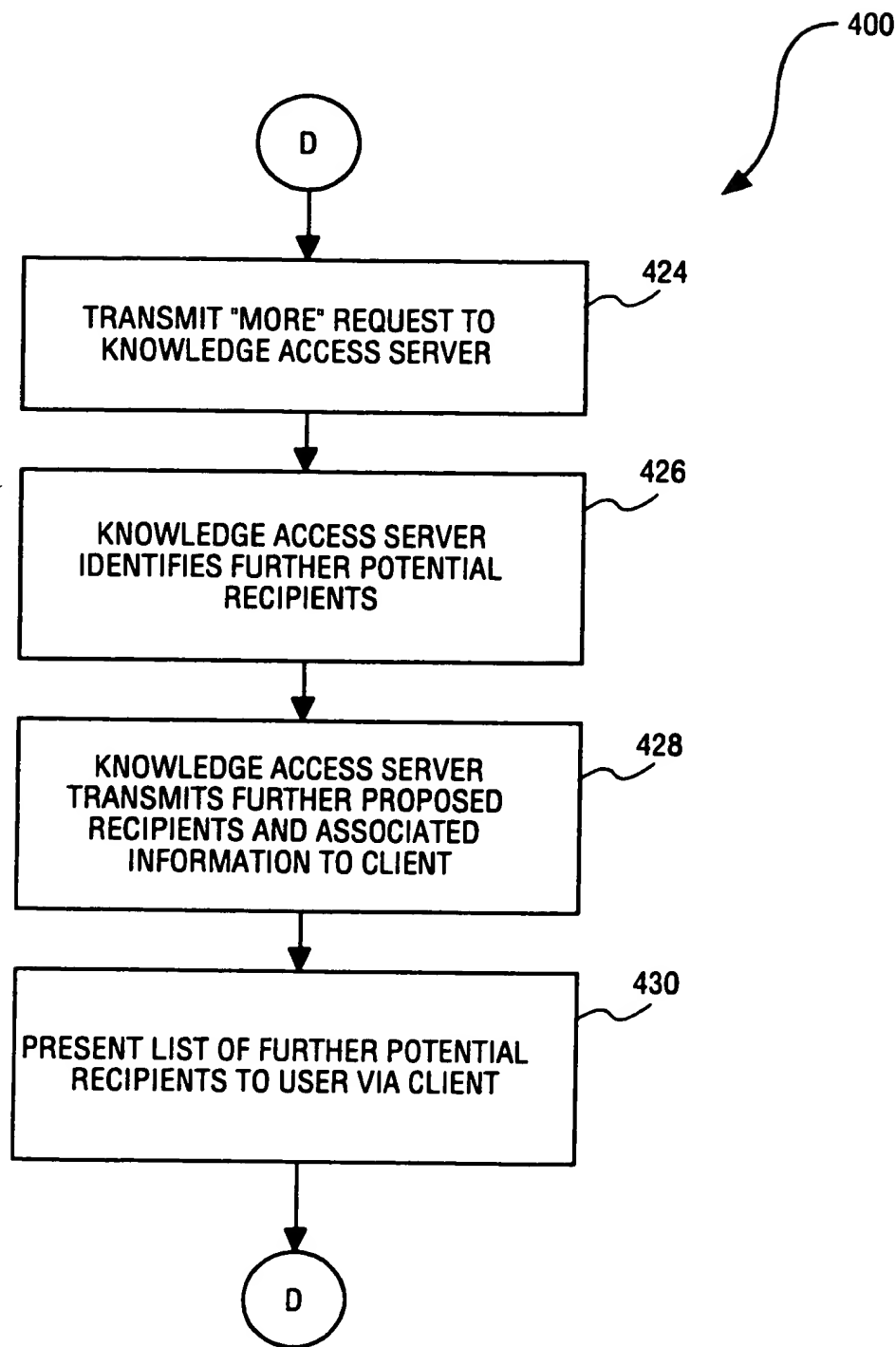


FIG. 18A

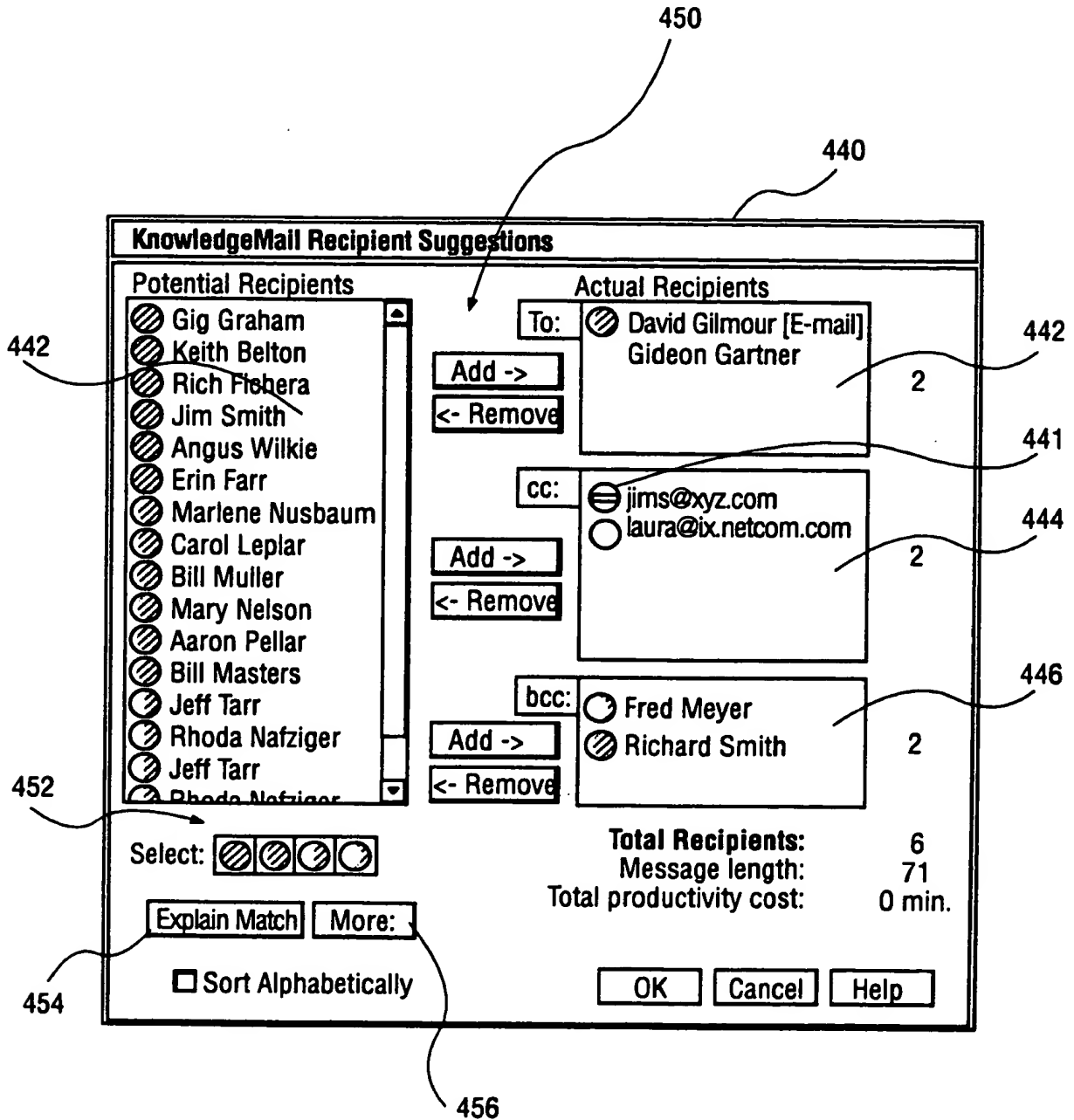




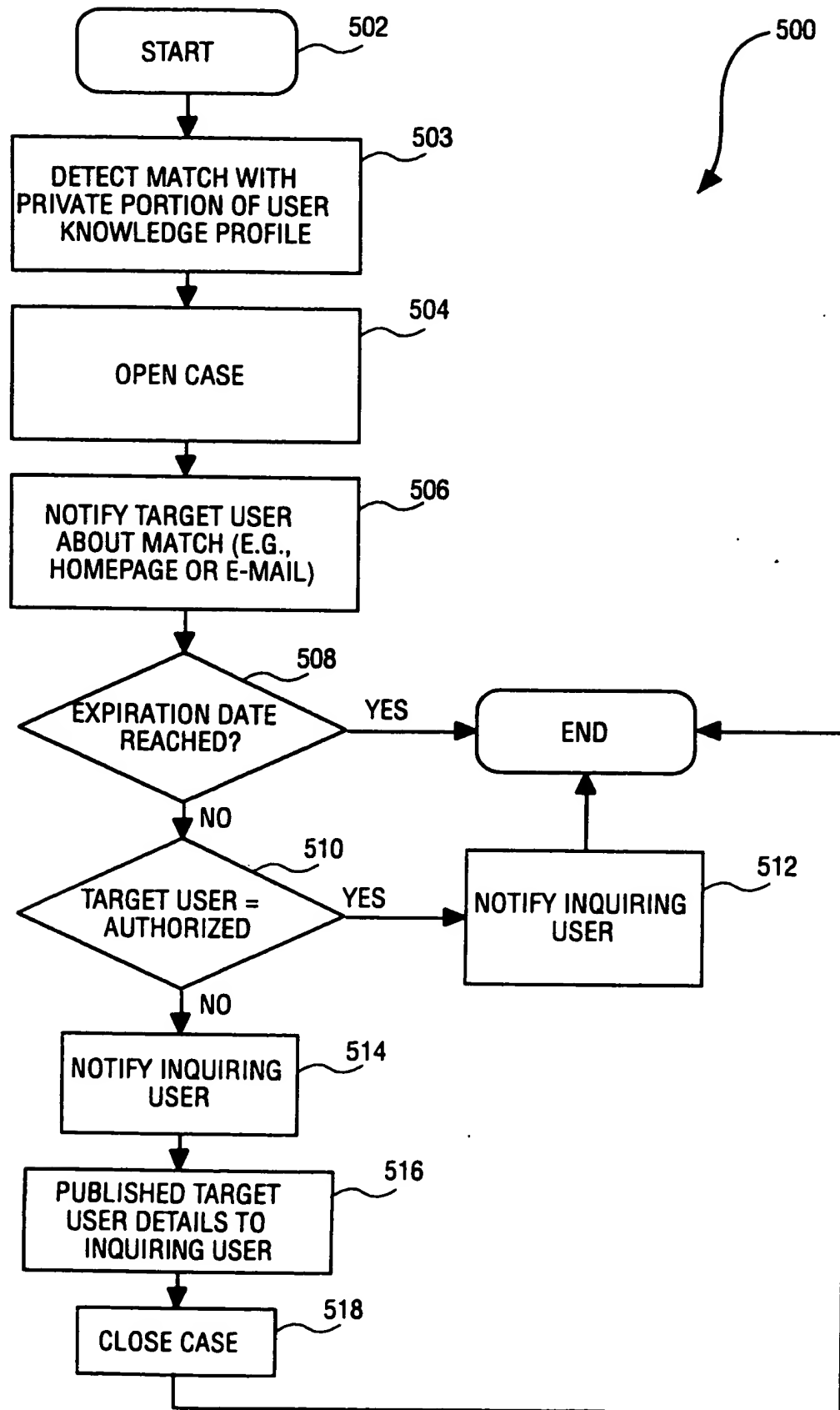
**FIG. 18B**



**FIG. 18C**



**FIG. 18D**



**FIG. 19**

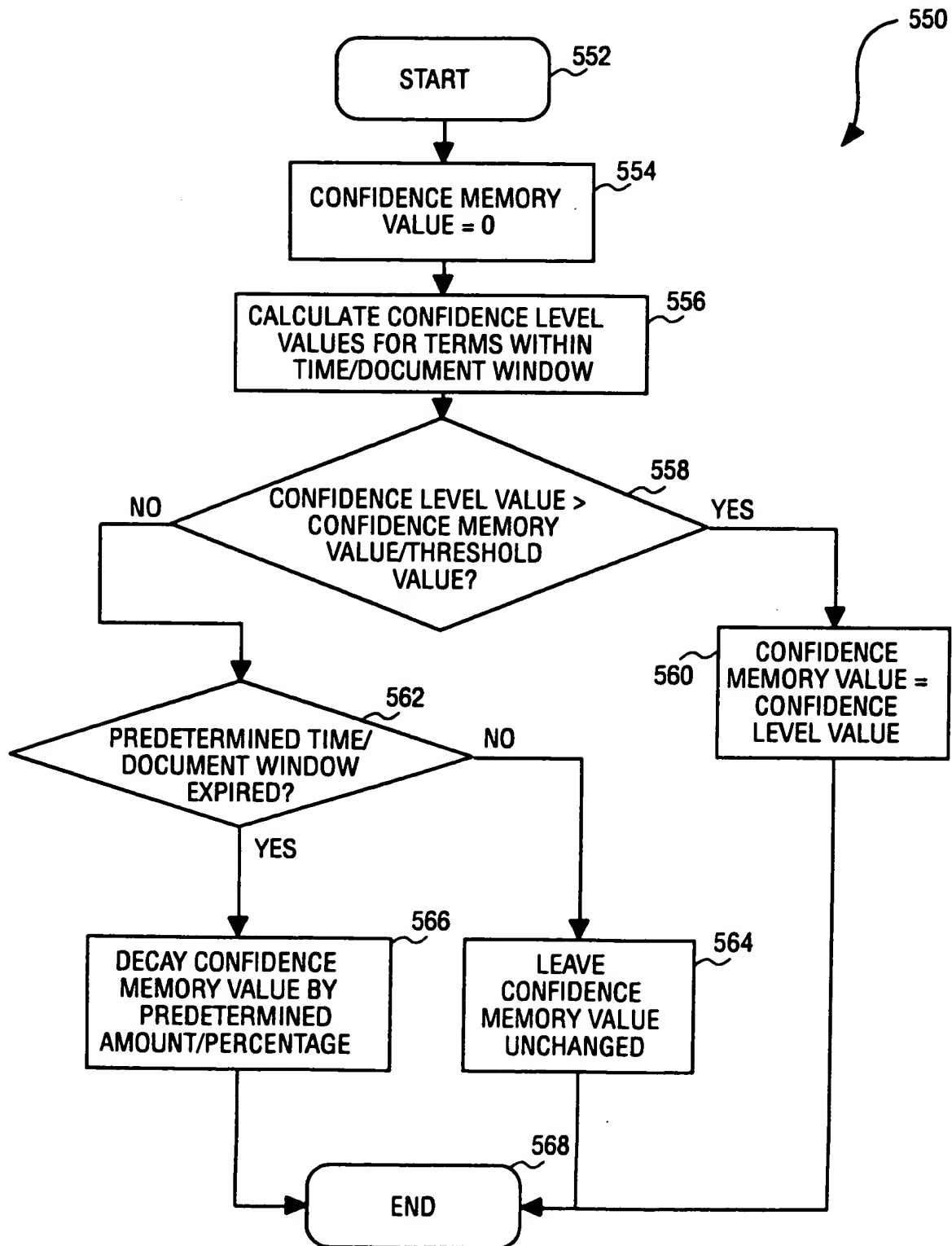
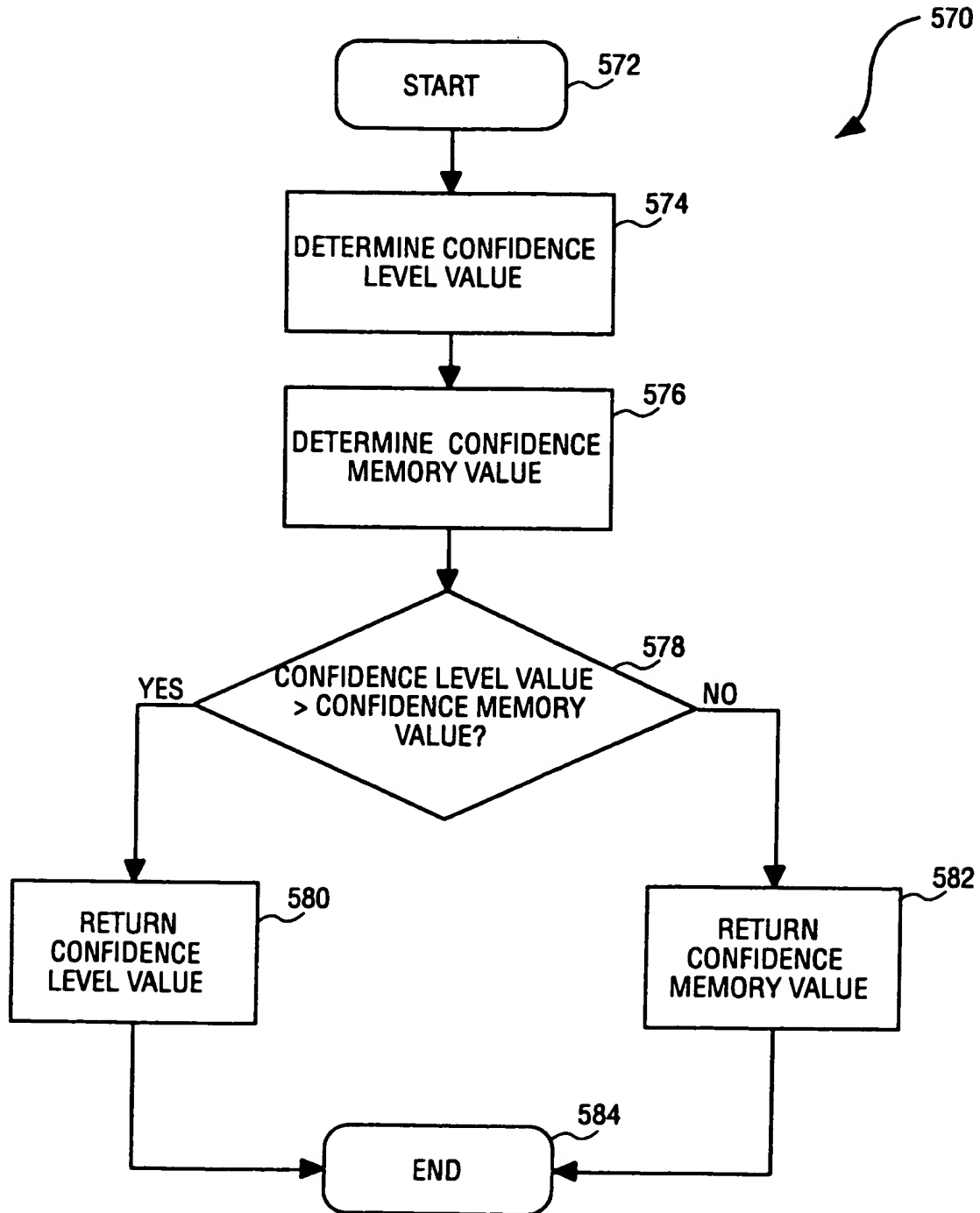


FIG. 20



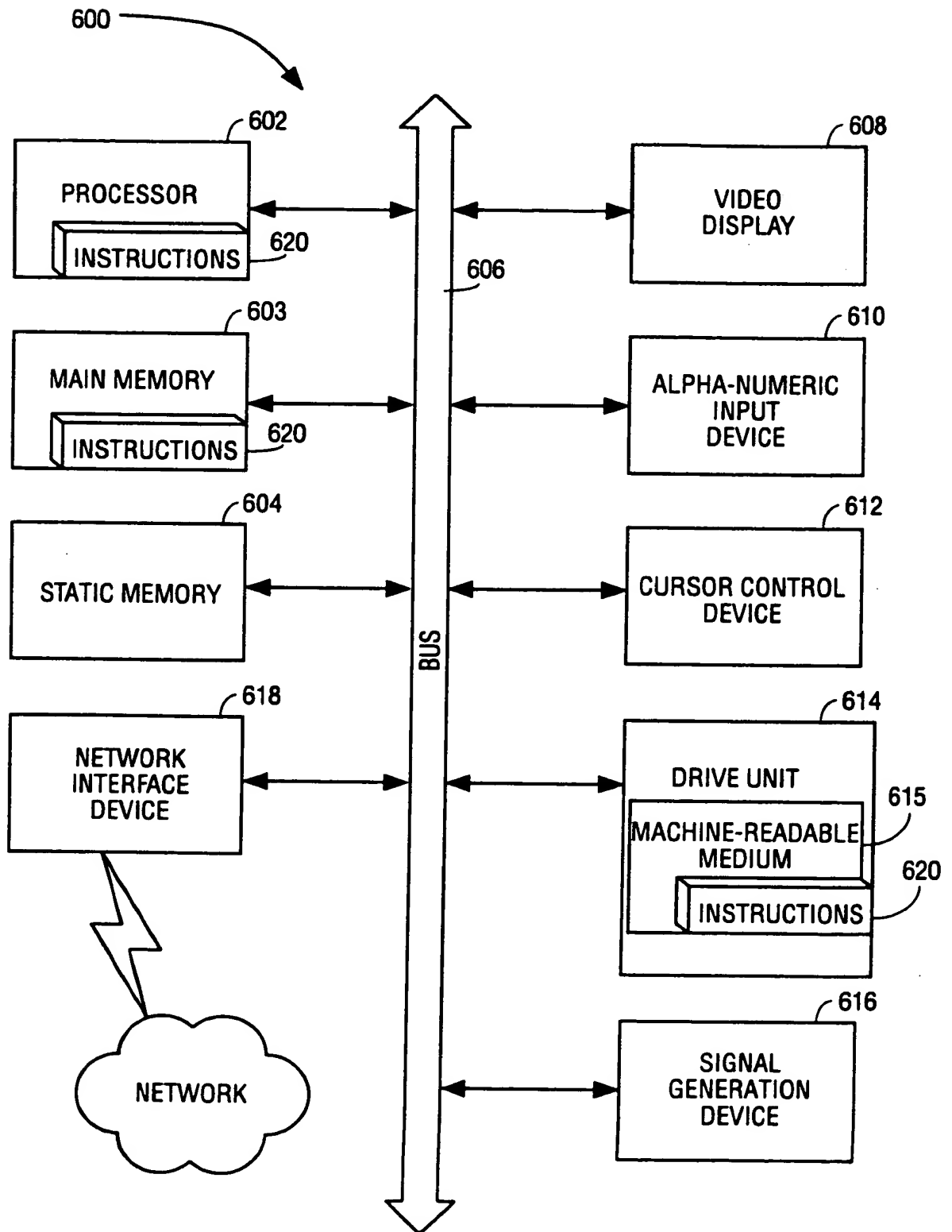
**FIG. 21**

112

USER ID	TERM ID	CONFIDENCE LEVEL	CONFIDENCE MEMORY	TIME STAMP
1	101	990	990	9812120800
1	106	976	976	9807241400
1	207	950	950	9805121200
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
1	67	310	310	9812241900
1	98	300	900	9802110700
1	116	290	290	9804120900
1	190	287	860	9806060900
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
8	107	995	995	9811191000
8	128	992	992	9811201000
8	154	900	995	9712291300
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
8	62	370	370	9812181421
8	8	300	300	9812211600
8	52	207	750	9802021647
8	261	200	200	9802221147
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

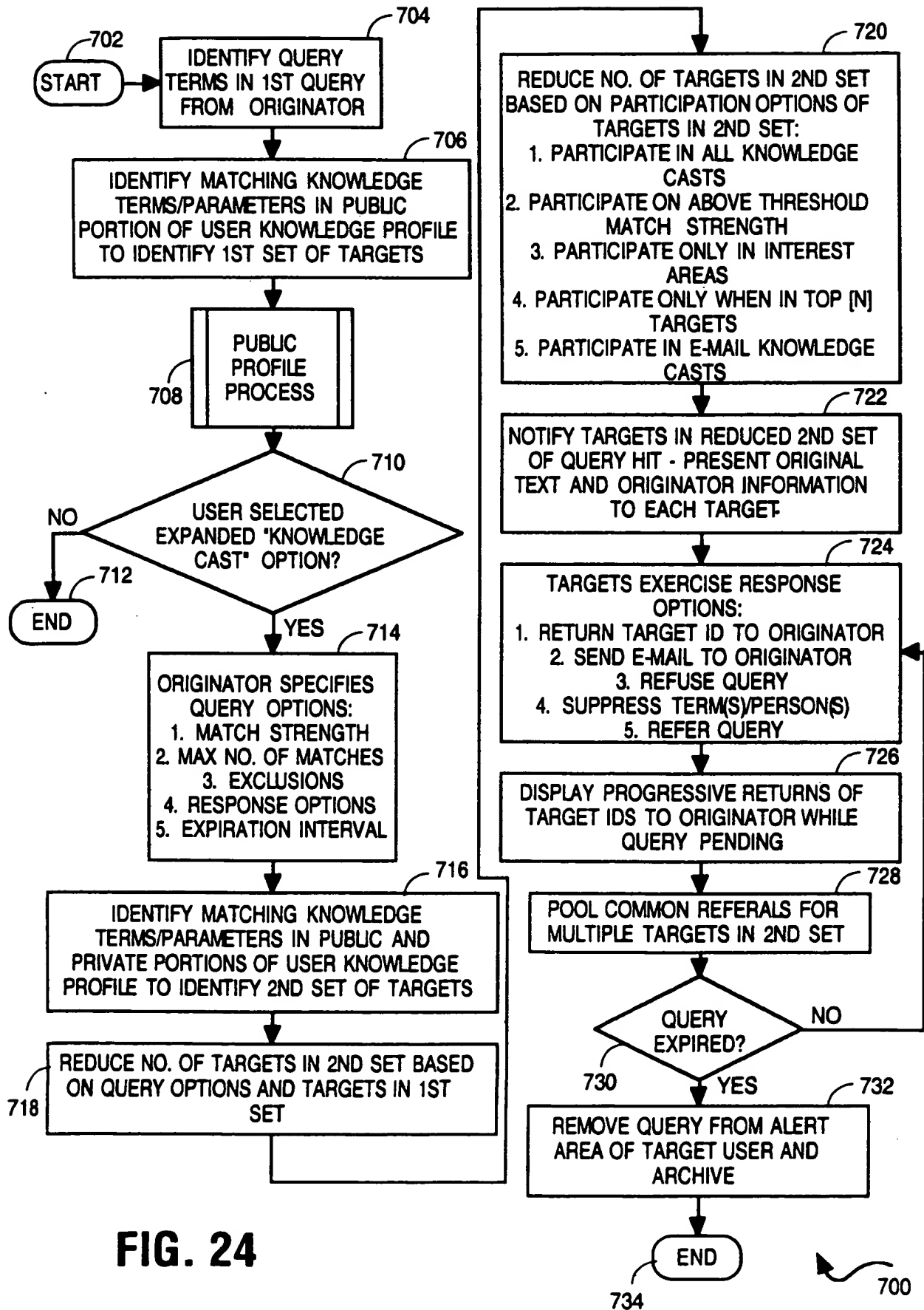
92 94 118 121 123

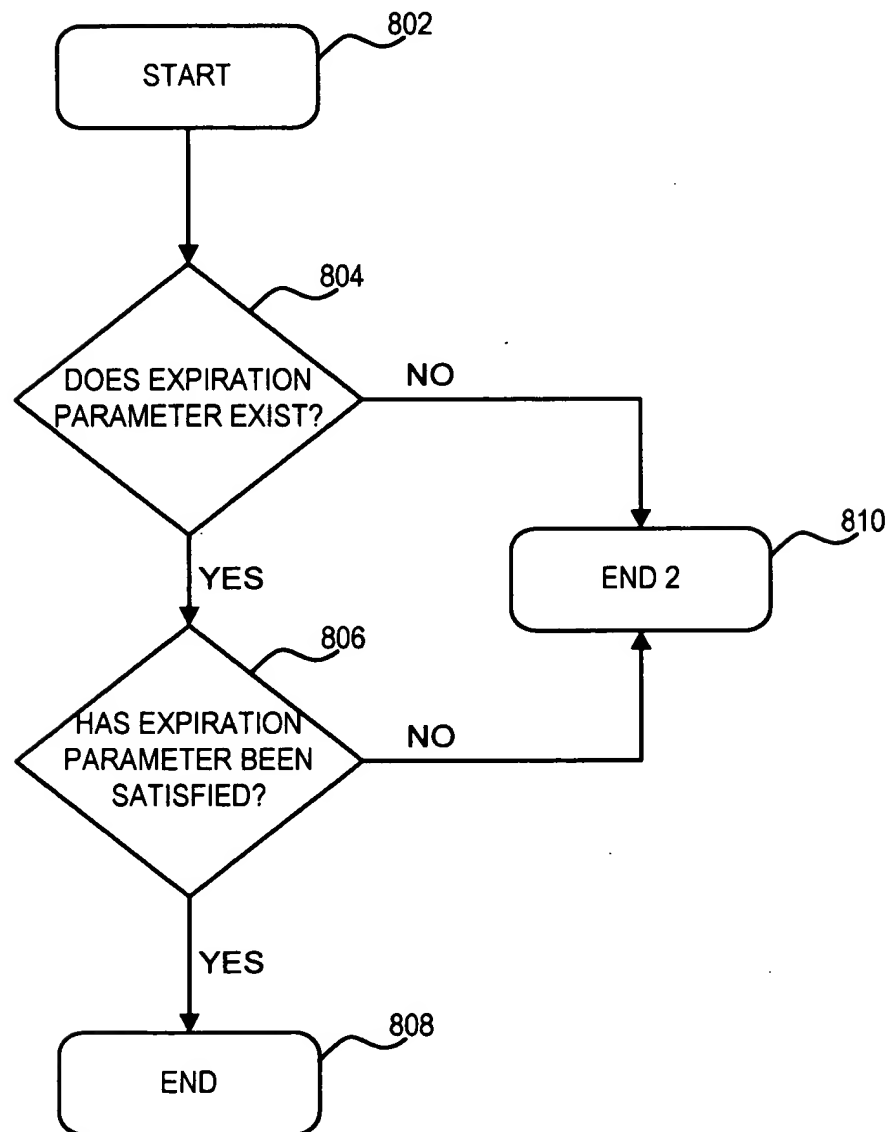
FIG. 22



**FIG. 23**







**FIG. 25**